New Attorney Docket No.: 08350.1796-00000

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A system being operated by an outside source of fluid and producing hydraulic power, said system comprising a free piston pump being operated by said outside source fluid and a control system:

a free piston pump being operated by said outside source fluid, said free piston pump having a housing having a pair of chambers positioned therein, a pair of end covers having a pair of chambers therein, a first valve being operatively attached to one of said pair of end covers, said first valve being movable into an open position fluidly connecting said fluid with one of said pair of end cover chambers, a second valve being operatively attached to another one of said pair of end covers, said second valve being movable into an open position fluidly connecting said fluid with another one of said pair of end cover chambers at least a single piston, said piston being slidably positioned in at least one of said pair of end cover chambers, a shaft being attached to said piston, said shaft having a first end being slidably positioned in one of said pair of housing chambers;

a control system, said control system including a computer, a plurality of sensors being attached to said free piston pump, and a plurality of lines interconnecting said sensors and said computer.

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2. (Original) The system of claim 1 wherein said free piston pump includes a pair of pistons and a pair of shafts.

- 3. (Original) The system of claim 2 wherein said pair of pistons are connected by a plurality of rods.
- 4. (Original) The system of claim 2 wherein said free piston pump is a double acting pump.
- 5. (Currently Amended) The system of claim 1 wherein said system is used in combination with includes a reheating system.
- 6. (Currently Amended) The system of claim [[5]] 1 wherein said pair of end cover chambers and said pair of housing chambers define a bore having has a preestablished circumferential configuration and said preestablished circumferential configuration is cylindrical.
- 7. (Original) The system of claim 1 having a plurality of free piston pumps.
- 8. (Currently Amended) A free piston pump being operated by an outside source fluid, said free piston pump comprising:

a housing having a pair of chambers positioned therein;

a pair of end covers having a pair of chambers therein;

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a first valve being operatively attached to one of said pair of end covers, said first valve being movable into an open position fluidly connecting said fluid with one of said pair of end cover chambers;

a second valve being operatively attached to another one of said pair of end covers, said second valve being movable into an open position fluidly connecting . said fluid with another one of said pair of end cover chambers;

a pair of pistons, one of said pair of pistons being slidably positioned in each one of said pair of end cover chambers;

a first shaft being attached to one of said pair of pistons, said first shaft having a first end being slidably positioned in one of said pair of <a href="https://example.com/housing/balance

a second shaft being attached to another of said pair of pistons, said second shaft having a first end being slidably position in another one of said pair of housing chambers.

- 9. (Currently Amended) The free piston pump of claim 8 wherein one of said pair of pistons being is located in one of said pair of end covers and another of said pair of pistons being is located in another of said pair of end covers.
- 10. (Original) The free piston pump of claim 8 wherein one of said pair of pistons has a preestablished diameter being less than a preestablished diameter of another of the pair of pistons.
- 11. (Original) The free piston pump of claim 8 wherein said pair of pistons are connected by a plurality of rods.

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12. (Original) The free piston pump of claim 8 wherein said free piston pump is a double acting pump.

- 13. (Currently Amended) The free piston pump of claim 8 wherein said pair of end cover chambers define a bore having a preestablished circumferential configuration and said piston has a circumferential configuration in which a seal is positioned.
- 14. (Original) The free piston pump of claim 13 wherein said preestablished circumferential configuration is cylindrical.
- 15. (Currently Amended) The free piston pump of claim 8 wherein each of said pair of <u>end cover</u> chambers has a preestablished volume and, as a preestablished volume of one of said pair of <u>end cover</u> chambers decreases, another preestablished volume of <u>said</u> another one of said pair of <u>end cover</u> chambers increases.
- 16. (Original) The free piston pump of claim 8 wherein said first valve and said second valve are 3-way valves having an open position, a closed position, and a venting position.
 - 17. 20. Canceled.